

AD-A197 058

DEPARTMENT OF THE ARMY

JUSTIFICATION OF ESTIMATES FOR AMENDED FY 1988/1989 BIENNIAL BUDGET

SUBMITTED TO CONGRESS

FEBRUARY 1988



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PROCUREMENT AIRCRAFT PROCUREMENT, ARMY PROGRAMS

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JUSTIFICATION OF ESTIMATES
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| Construction (3B866) | 1 | | | 20 Massachusetts Ave | |
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| USD(A) (3D139) | 18 | SAFM-BUC-I (3A674) | 1 | Commander | 10 |
| | | | | US Army Materiel Command | |
| USD(POLICY) (1C469) | 1 | SAFM-BUL-P (3C482) | 12 | ATTN: AMCDE | |
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| DIR(DOTE) (3E318) | 2 | SARD-RPR (3D400) | 30 | Alexandria, Va 22333 | |
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| DODIG for Audit ATTN: ASP 1300 Wilson Blvd Arlington, Va 22209 | 1 | Program Manager, LHX ATTN: AMCPEO-LHX 4300 Goodfellow Blvd St Louis, Mo 63120-1798 | 5 | PEO, Communications Sys ATTN: AMCPEO-COMM Ft. Monmouth, NJ 07703-5000 | 5 |
| HQDA (DAAA-PRP) 3101 Park Center Dr Rm 1301 Alexandria, VA 22302-1596 | 1 | PEO, Cmbt Support Sys ATTN: AMCPEO-CS Warren, MI 48397-5000 | 5 | PEO, Health Care Sys ATTN: DASG-ZA 5111 Leesburg Pike Falls Church, Va 22041-3258 | 5 |
| PEO, Close Cmbt Armamnts ATTN: AMCPEO-CCA Picatinny Arsenal, NJ 07806-5000 | 5 | PEO, IEW ATTN: AMCPEO-IEW Building 209, VHFS Warrenton, VA 22186-5115 | 5 | PEO, High/Medium Air Def ATTN: AMCPEO-HI Redstone Arsenal, AL 35898-8020 | 5 |
| PEO, Fire Support ATTN: AMCPEO-FS Redstone Arsenal, AL 35898-8000 | 5 | PEO, Troop Support ATTN: AMCPEO-TRP 4300 Goodfellow Blvd ST Louis, MO 63120-1798 | 5 | PEO, Forward Air Defense ATTN: AMCPEO-FA Redstone Arsenal, AL 35898-5750 | 5 |
| PEO, Combat Aviation ATTN: AMCPEO-CA 4300 Goodfellow Blvd St Louis, MO 63120-1798 | 5 | PEO, Networks ATTN: AMCPEO-PEN Ft. Monmouth, NJ 07703-5000 | 5 | PEO, Ammunition ATTN: AMCPEO-AMMO 5001 Eisenhower Blvd Alexandria, VA 22333-0001 | 5 |
| Chief of Engineers ATTN: CECG 20 Massachusetts Ave Washington, D.C. 20314-1000 | 1 | Program Manager, RCAS ATTN: AS-RCAS STOP C-13, Bldg 1469 Ft. Belvoir, VA 22060-5436 | 1 | PEO, Close Combat Vehicle ATTN: AMCPEO-CCV Warren, MI 48090-5000 | 5 |

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| PM, Chemical Demil ATTN: AMCPEO-CD Aberdeen Proving Ground MD, 21010 | 1 | PEO, Chemical/Nuclear ATTN: AMCPEO-CN Aberdeen Proving Ground MD, 21010 | 1 | PEO, Command Mgt Information ATTN: AS-PEC Ft. Belvoir, VA 22060-5456 | 5 |
| PEO, Command & Control ATTN: AMCPEO-CCS FT Monmouth, NJ 07703-5000 | 5 | PEO, Close Cmbt MsIs ATTN: AMCPEO-CM Redstone Arsenal, AL 35898-8040 | 5 | PEO, Close Combat Aviation ATTN: AMCPEO-CSA 4300 Goodfellow Blvd St Louis, MO 63120-1798 | 5 |
| PEO, STAMMIS ATTN: AS-PES STOP C5 Ft Belvoir, VA 22060-5456 | 2 | PEO, Strategic Defense ATTN: DASG-ZA Crystal Mall Arlington, VA 22215-0150 | 5 | PEO, Financial Systems ATTN: SAFM-FAZ-A Ft Benjamin Harrison Indianapolis, IN 46249-0100 | 1 |

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DEPARTMENT OF THE ARMY
AIRCRAFT PROCUREMENT, ARMY

JUSTIFICATION OF ESTIMATES FOR AMENDED FY 1988/FY1989 BIENNIAL BUDGET

TABLE OF CONTENTS PAGE NO.

| | |
|--|------|
| Section 1 - Budget Appendix Extract | 1-1 |
| Section 2 - Budget Activity Justification | 1-11 |
| Section 3 - Comparison of Program Requirements and Financing | 1-26 |
| Section 4 - Status of Aircraft Modification Programs | 1-31 |
| Section 5 - Flight Simulator Procurement Program | 1-35 |

Keywords: Tables (data)
Statistical data (KR)

AIRCRAFT PROCUREMENT, ARMY

Section 1

Budget Appendix Extract

Appropriation Language

Program and Financing Schedule

Object Classification Schedule

1-1 February 1988

APPROPRIATION LANGUAGE

For construction, procurement, production, modification, and modernization of aircraft, equipment, including ordnance, ground handling equipment, spare parts, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title, and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes; [\$2,718,406,000] \$2,791,500,000 to remain available for obligation until [September 30, 1990] September 30, 1991 of which \$175,500,000 shall be made available only for the Army National Guard and Army Reserve.

1-2 February 1988

Army

Aircraft Procurement, Army
Program and Financing (in Thousands of dollars) SUMMARY

| Identification code | 21-2031-0-1-051 | Budget Plan (amounts for PROCUREMENT actions programmed) | | | Obligations | | |
|---|--|--|-----------|-----------|-------------|------------|------------|
| | | 1987 actual | 1988 est. | 1989 est. | 1987 actual | 1988 est. | 1989 est. |
| Program by activities: | | | | | | | |
| Direct program: | | | | | | | |
| 00.0101 | Aircraft | 1,550,648 | 1,420,195 | 1,335,638 | 1,815,619 | 1,293,367 | 1,327,846 |
| 00.0201 | Modification of aircraft | 533,129 | 628,116 | 740,065 | 576,826 | 646,950 | 772,963 |
| 00.0301 | Spares and repair parts | 345,598 | 517,122 | 552,169 | 724,126 | 474,432 | 529,951 |
| 00.0401 | Support equipment and facilities | 172,565 | 152,973 | 163,628 | 114,640 | 184,347 | 159,583 |
| 00.9101 | Total direct program | 2,731,940 | 2,718,406 | 2,791,500 | 3,231,211 | 2,599,096 | 2,790,343 |
| 01.0101 | Reimbursable program | 65,124 | 133,800 | 49,300 | 76,950 | 139,722 | 49,300 |
| 10.0001 | Total | 2,797,064 | 2,852,206 | 2,840,800 | 3,308,161 | 2,738,818 | 2,839,643 |
| Financing: | | | | | | | |
| Offsetting collections from: | | | | | | | |
| 11.0001 | Federal funds(-) | -51,327 | -53,000 | -26,000 | -47,062 | -53,000 | -26,000 |
| 13.0001 | Trust funds(-) | -13,797 | -80,800 | -23,300 | -14,023 | -80,800 | -23,300 |
| 14.0001 | Non-Federal sources(-) | | | | | | |
| 17.0001 | Recovery of prior year obligations | | | | -167,523 | | |
| Unobligated balance available, start of year: | | | | | | | |
| 21.4002 | For completion of prior year budget plans | | | | | | |
| 21.4003 | Available to finance new budget plans | -108,200 | -87,100 | | -835,468 | -428,009 | -547,687 |
| 21.4007 | Reprogramming from/to prior year budget plan | -59,844 | 6,290 | | -108,200 | -87,100 | |
| 22.4001 | Unobligated balance transferred to other acc | 28,819 | 19,610 | | 28,819 | 19,610 | |
| Unobligated balance available, end of year: | | | | | | | |
| 24.4002 | For completion of prior year budget plans | 87,100 | | | 428,009 | 547,687 | 548,844 |
| 24.4003 | Available to finance subsequent year budget | 6,535 | | | 87,100 | | |
| 25.0001 | Unobligated balance lapsing | | | | 6,535 | | |
| 39.0001 | Budget authority | 2,686,350 | 2,657,206 | 2,791,500 | 2,686,350 | 2,657,206 | 2,791,500 |
| Budget authority: | | | | | | | |
| 40.0001 | Appropriation | 2,780,750 | 2,718,406 | 2,791,500 | 2,780,750 | 2,718,406 | 2,791,500 |
| 40.0017 | Appropriation rescinded | -94,400 | -61,200 | | -94,400 | -61,200 | |
| 43.0001 | Appropriation (adjusted) | 2,686,350 | 2,657,206 | 2,791,500 | 2,686,350 | 2,657,206 | 2,791,500 |
| Relation of obligations to outlays: | | | | | | | |
| 71.0001 | Obligations incurred, net | | | | 3,247,078 | 2,605,018 | 2,790,343 |
| 72.4001 | Obligated balance, start of year | | | | 4,792,788 | 4,568,876 | 4,392,994 |
| 74.4001 | Obligated balance, end of year | | | | -4,568,876 | -4,392,994 | -4,410,537 |
| 77.0001 | Adjustments in expired accounts | | | | 2,437 | | |
| 78.0001 | Adjustments in unexpired accounts | | | | -167,523 | | |
| 90.0001 | Outlays | | | | 3,305,904 | 2,780,900 | 2,772,800 |

Army

Aircraft Procurement, Army
Object Classification (in thousands of dollars) SUMMARY

| Identification code | 21-2031-0-1-051 | 1987 actual | 1988 est. | 1989 est. |
|----------------------------------|--------------------------------|-------------|-----------|-----------|
| Direct obligations: | | | | |
| 125.004 | Other | 922,833 | 621,625 | 381,036 |
| 126.001 | Supplies and materials | 632,025 | 444,017 | 272,117 |
| 131.001 | Equipment | 1,676,353 | 1,533,454 | 2,137,190 |
| 199.001 | Total Direct obligations | 3,231,211 | 2,599,096 | 2,790,343 |
| Reimbursable obligations: | | | | |
| 225.004 | Other | 21,977 | 3,759 | 3,759 |
| 226.001 | Supplies and materials | 15,051 | 2,685 | 2,685 |
| 231.001 | Equipment | 39,922 | 133,278 | 42,856 |
| 299.001 | Total Reimbursable obligations | 76,950 | 139,722 | 49,300 |
| 999.901 | Total obligations | 3,308,161 | 2,738,818 | 2,839,643 |

1-4 February 1988

Army

Aircraft Procurement, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1983

| Identification code | 21-2031-0-1-051 | Budget Plan (amounts for PROCUREMENT actions programmed) | | | Obligations | | |
|---------------------|---|--|-----------|-----------|-------------|-----------|-----------|
| | | 1987 actual | 1988 est. | 1989 est. | 1987 actual | 1988 est. | 1989 est. |
| Financing: | | | | | | | |
| 17.0001 | Recover. of prior year obligations | | | | | | |
| | Unobligated balance available, start of year: | | | | | | |
| 21.4007 | Reprogramming from/to prior year budget plan | -15,313 | | | | | |
| 22.4001 | Unobligated balance transferred to other acc | 15,313 | | | | | |
| 39.0001 | Budget authority | | | | -15,313 | | |
| | | | | | | 15,313 | |

Army

Aircraft Procurement, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1985

| Identification code | 21-2031-0-1-051 | Budget Plan (amounts for PROCUREMENT actions programmed) | | | Obligations | | |
|------------------------------|---|--|-----------|-----------|-------------|-----------|-----------|
| | | 1987 actual | 1988 est. | 1989 est. | 1987 actual | 1988 est. | 1989 est. |
| Program by activities: | | | | | | | |
| Direct program: | | | | | | | |
| 00.0101 | Aircraft | | | | 27,339 | | |
| 00.0201 | Modification of aircraft | | | | 56,666 | | |
| 00.0301 | Spares and repair parts | | | | 32,260 | | |
| 00.0401 | Support equipment and facilities | | | | 21,929 | | |
| 00.9101 | Total direct program | | | | 138,194 | | |
| 01.0101 | Reimbursable program | | | | 5,280 | | |
| 10.0001 | Total | | | | 143,474 | | |
| Financing: | | | | | | | |
| Offsetting collections from: | | | | | | | |
| 11.0001 | Federal funds(-) | | | | 111 | | |
| 13.0001 | Trust funds(-) | | | | 326 | | |
| 14.0001 | Non-Federal sources(-) | | | | 2 | | |
| 17.0001 | Recovery of prior year obligations | | | | -40,282 | | |
| | Unobligated balance available, start of year: | | | | | | |
| 21.4002 | For completion of prior year budget plans | | | | -137,612 | | |
| 21.4003 | Available to finance new budget plans | | | | -15,600 | | |
| 21.4007 | Reprogramming from/to prior year budget plan | -15,600 | | | | | |
| 22.4001 | Unobligated balance transferred to other acc | -33,981 | | | | | |
| 25.0001 | Unobligated balance lapsing | 27,446 | | | 27,446 | | |
| | | 6,535 | | | 6,535 | | |
| 40.0017 | Budget authority (Appropriation rescinded) | -15,600 | | | -15,600 | | |

1-6 February 1988

Army

Aircraft Procurement, Army
Program and Financing (in Thousands of Dollars) FISCAL YEAR 1986

| Identification code | 21-2031-0-1-051 | Budget Plan (amounts for PROCUREMENT actions programed) | | Obligations | |
|------------------------------|---|---|-----------|-------------|---------------------|
| | | 1987 actual | 1988 est. | 1987 actual | 1988 est. 1989 est. |
| Program by activities: | | | | | |
| Direct program: | | | | | |
| 00.0101 | Aircraft | | | 357,859 | 19,517 |
| 00.0201 | Modification of aircraft | | | 123,115 | 51,398 |
| 00.0301 | Spares and repair parts | | | 179,203 | 9,839 |
| 00.0401 | Support equipment and facilities | | | 28,000 | 20,523 |
| 00.9101 | Total direct program | | | 688,177 | 101,277 |
| 01.0101 | Reimbursable program | | | 9,468 | 3,000 |
| 10.0001 | Total | | | 697,645 | 104,277 |
| Financing: | | | | | |
| Offsetting collections from: | | | | | |
| 11.0001 | Federal funds(-) | | | 4,154 | |
| 13.0001 | Trust funds(-) | | | -552 | |
| 17.0001 | Recovery of prior year obligations | | | -111,928 | |
| 21.4002 | Unobligated balance available, start of year: | | | | |
| 21.4003 | For completion of prior year budget plans | | | -697,856 | -104,277 |
| 21.4007 | Available to finance new budget plans | | | -92,600 | -32,000 |
| 22.4001 | Reprogramming from/to prior year budget plan | | | | |
| 24.4002 | Unobligated balance transferred to other acc | | | -13,940 | |
| 24.4003 | Unobligated balance available, end of year: | | | | |
| | For completion of prior year budget plans | | | 104,277 | |
| | Available to finance subsequent year budget | | | 32,000 | |
| 40.0017 | Budget authority (Appropriation rescinded) | | | -78,800 | -32,000 |

1-7 February 1988

Army

Aircraft Procurement, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1987

| Identification code | 21-2031-0-1-051 | Budget plan (amounts for PROCUREMENT actions programmed) | | | Obligations | | |
|------------------------------|---|--|-----------|----------|-------------|-----------|-----------|
| | | 1987 actual | 1988 est. | 1989 est | 1987 actual | 1988 est. | 1989 est. |
| Program by activities: | | | | | | | |
| Direct program: | | | | | | | |
| 00.0101 | Aircraft | 1,550,648 | | | 1,430,421 | 78,772 | 41,455 |
| 00.0201 | Modification of aircraft | 533,129 | | | 397,045 | 54,361 | 81,723 |
| 00.0301 | Spares and repair parts | 545,598 | | | 512,663 | 21,419 | 11,516 |
| 00.0401 | Support equipment and facilities | 102,565 | | | 64,711 | 32,726 | 5,128 |
| 00.9101 | Total direct program | 2,731,940 | | | 2,404,840 | 187,278 | 139,822 |
| 01.0101 | Reimbursable program | 65,124 | | | 62,202 | 2,922 | |
| 10.0001 | Total | 2,797,064 | | | 2,467,042 | 190,200 | 139,822 |
| Financing: | | | | | | | |
| Offsetting collections from: | | | | | | | |
| 11.0001 | Federal funds(-) | -51,327 | | | -51,327 | | |
| 13.0001 | Trust funds(-) | -13,797 | | | -13,797 | | |
| 21.4002 | Unobligated balance available, start of year: | | | | | | |
| 21.4003 | For completion of prior year budget plans | | | | | -323,732 | -139,822 |
| 21.4007 | Available to finance new budget plans | | -55,100 | | | -55,100 | |
| 22.4001 | Reprogramming from/to prior year budget plan | -6,290 | 6,290 | | | 19,610 | |
| 22.4001 | Unobligated balance transferred to other acc | | 19,610 | | | | |
| 24.4002 | Unobligated balance available, end of year: | | | | | | |
| 24.4003 | For completion of prior year budget plans | 55,100 | | | 323,732 | 139,822 | |
| 24.4003 | Available to finance subsequent year budget | | | | 55,100 | | |
| 39.0001 | Budget authority | 2,780,750 | -29,200 | | 2,780,750 | -29,200 | |
| Budget authority: | | | | | | | |
| 40.0001 | Appropriation | 2,780,750 | -29,200 | | 2,780,750 | -29,200 | |
| 40.0017 | Appropriation rescinded | | | | | | |
| 43.0001 | Appropriation (adjusted) | 2,780,750 | -29,200 | | 2,780,750 | -29,200 | |

1-8 February 1988

Army

Aircraft Procurement, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1988

| Identification code | 21-2031-0-1-051 | Budget Plan (amounts for PROCUREMENT actions programmed) | | | Obligations | | |
|------------------------------|--|--|-----------|-----------|-------------|-----------|-----------|
| | | 1987 actual | 1988 est. | 1989 est. | 1987 actual | 1988 est. | 1989 est. |
| Program by activities: | | | | | | | |
| Direct program: | | | | | | | |
| 00.0101 | Aircraft | | 1,420,195 | | 1,195,078 | 145,932 | |
| 00.0201 | Modification of aircraft | | 628,116 | | 541,191 | 57,005 | |
| 00.0301 | Spares and repair parts | | 517,122 | | 443,174 | 48,092 | |
| 00.0401 | Support equipment and facilities | | 152,973 | | 131,098 | 14,226 | |
| 00.9101 | Total direct program | | 2,718,406 | | 2,310,541 | 265,255 | |
| 01.0101 | Reimbursable program | | 133,800 | | 133,600 | | |
| 10.0001 | Total | | 2,852,206 | | 2,444,341 | 265,255 | |
| Financing: | | | | | | | |
| Offsetting collections from: | | | | | | | |
| 11.0001 | Federal funds(-) | | -53,000 | | -53,000 | | |
| 13.0001 | Trust funds(-) | | -80,800 | | -80,800 | | |
| 21.4002 | Unobligated balance available, start of year: For completion of prior year budget plans | | | | | -407,865 | |
| 24.4002 | Unobligated balance available, end of year: For completion of prior year budget plans | | | | 407,865 | 142,610 | |
| 40.0001 | Budget authority (Appropriation) | | 2,718,406 | | 2,718,406 | | |

Army

Aircraft Procurement, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1989

| Identification code | 21-2031-0-1-051 | Budget plan (amounts for PROCUREMENT actions programmed) | | | Obligations | |
|------------------------------|--|--|-----------|-----------|-------------|---------------------|
| | | 1987 actual | 1988 est. | 1989 est. | 1987 actual | 1988 est. 1989 est. |
| Program by activities: | | | | | | |
| Direct program: | | | | | | |
| 00.0101 | Aircraft | | 1,335,638 | | | 1,140,459 |
| 00.0201 | Modification of aircraft | | 740,065 | | | 634,235 |
| 00.0301 | Spares and repair parts | | 552,169 | | | 470,343 |
| 00.0401 | Support equipment and facilities | | 163,628 | | | 140,229 |
| 00.9101 | Total direct program | | 2,791,500 | | | 2,385,266 |
| 01.0101 | Reimbursable program | | 49,300 | | | 49,300 |
| 10.0001 | Total | | 2,840,800 | | | 2,434,566 |
| Financing: | | | | | | |
| Offsetting collections from: | | | | | | |
| 11.0001 | Federal funds(-) | | 26,000 | | | -26,000 |
| 13.0001 | Trust funds(-) | | -23,300 | | | -23,300 |
| 24.4002 | Unobligated balance available, end of year: For completion of prior year budget plans | | | | | 406,234 |
| 40.0001 | Budget authority (Appropriation) | | 2,791,500 | | | 2,791,500 |

AIRCRAFT PROCUREMENT, ARMY

Section 2

Budget Activity Justifications

Activity 1 - Aircraft

Activity 2 - Modification of Aircraft

Activity 3 - Spares and Repair Parts

Activity 4 - Support Equipment and Facilities

1-11 February 1988

| Department of the Army Annual Budget Estimates JUSTIFICATION | Appropriation | | Amended FY 1988/FY 1989 | |
|--|----------------------------|-----------|-------------------------|-----------|
| | Aircraft Procurement, Army | | Biennial Budget | |
| | (Thousands of Dollars) | | | |
| Program or Budget Project Account | Initial | | Amended | |
| | Actual | Estimate | Estimate | Estimate |
| Budget Program - Activity 1, Aircraft. | FY 1987 | FY 1988 | FY 1989 | FY 1989 |
| Direct Obligation or Direct Budget Plan | 1,550,648 | 1,420,195 | 712,650 | +622,988 |
| Direct Obligation | | | | 1,335,638 |

Section 1 - PURPOSE AND SCOPE

Provides for procurement and manufacture of airplanes, helicopters, and associated aircraft armament, flight simulators, training devices and avionics equipment.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

| | |
|----------|---------------------|
| | (\$ in Thousands) |
| FY 1988 | FY 1989 |
| \$13,599 | - |

Golden Knights Replacement - (P-1 Line Item 1).

In FY 1988, \$13.6 million provides for a competitive procurement of two commercial-type aircraft for the U.S. Army Parachute Team, Golden Knights.

| | |
|----------|---------------------|
| | (\$ in Thousands) |
| FY 1988 | FY 1989 |
| \$20,000 | - |

C-20 Aircraft - (P-1 Line Item 2).

In FY 1988, \$20.0 million was appropriated to procure one C-20 aircraft for use by NATO commanders.

1-12 February 1988

| | |
|---------|-------------------|
| | (\$ in Thousands) |
| FY 1988 | FY 1989 |
| \$194 | - |

Cessna Skylane - (P-1 Line Item 4).

In FY 1988, \$.2 million was appropriated to procure two Cessna-182 type aircraft to replace the two T-41's currently being used by the U.S. Military Academy at West Point for its aviation training mission.

| | |
|----------|-------------------|
| | (\$ in Thousands) |
| FY 1988 | FY 1989 |
| \$43,752 | \$69,394 |

RC-12H/K Reconnaissance Airplane - (P-1 Line Item 5).

In FY 1988, \$43.8 million is allocated to procure three RC-12K reconnaissance aircraft and mission equipment. In FY 1989, \$69.4 million is requested to procure six additional RC-12K aircraft and the associated mission equipment. This system, GUARDRAIL Common Sensor, provides full Signal Intelligence support, including ELINT and COMINT at the Corps level.

| | |
|---------|-------------------|
| | (\$ in Thousands) |
| FY 1988 | FY 1989 |
| \$7,250 | - |

EH-60A QUICK FIX Electronic Helicopter (Multiyear Procurement) - (P-1 Line Items 6 and 7).

FY 1988 funds provide residual support and costs associated with production termination.

(\$ in Thousands)
 FY 1988 FY 1989
\$847,000 \$809,076

AH-64 Attack Helicopter (APACHE) - (P-1 Line Items 8 and 9).

In FY 1988, \$847.0 million was appropriated for the procurement of 77 AH-64 APACHE attack helicopters and three Cockpit Weapons Emergency Procedure Trainers (CWEPT). In FY 1989, \$773.1 million is requested for the procurement of 72 AH-64 APACHE attack helicopters and \$36.0 million for advance procurement to continue production. The APACHE is a twin-engine, two-place, fully integrated anti-armor weapon system capable of destroying tanks and other armored vehicles under day, night and adverse weather conditions. The aircraft employs the HELIFIRE (laser seeking) anti-tank missile, Hydra 70 rockets, and 30mm gun. Target acquisition is accomplished by the Target Acquisition and Designation Sight (TADS) which enables extremely accurate fire with a high first round hit probability. Night navigation is provided by the Pilot Night Vision Sensor (PNVS). The mobility, flexibility, and rapid response of the AH-64 will provide the balance required to help counter the Warsaw Pact threat and allow the AH-64 to be a key member of the Rapid Deployment Force (RDF).

(\$ in Thousands)
 FY 1988 FY 1989
\$488,400 \$457,168

UH-60A BLACK HAWK (Multiyear Procurement) - (P-1 Line Items 10 and 11).

In FY 1988, \$488.4 million is allocated for the procurement of 72 UH-60A BLACK HAWK helicopters and procurement of three UH-60 flight simulators. These funds include \$208.4 million for advance procurement of long leadtime items and engines required to support the follow-on multiyear procurement (FY 1988 - 1991) of airframes. A total of \$457.2 million is requested in FY 1989 for procurement of 72 UH-60A BLACK HAWK helicopters. The FY 1989 request includes \$205.6 million for advance procurement of long leadtime engine and airframe components required to support the multiyear contract. The BLACK HAWK will modernize the Army's utility helicopter fleet. It will enhance tactical mobility with increased speed, lift capacity, range, reliability, availability, maintainability, and survivability at reduced overall operating costs. This utility helicopter is the Army's first true squad carrying helicopter.

1-14 February 1988

| Department of the Army Annual Budget Estimates JUSFICATION Program or Budget Project Account | Appropriation | | Amended FY 1988/FY 1989 | |
|---|----------------------------|----------|-------------------------|-----------------|
| | Aircraft Procurement, Army | | Biennial Budget | |
| | (Thousands of Dollars) | | | |
| | Initial | | Amended | |
| Budget Program - Activity 2, Aircraft Modifications | Actual | Estimate | Estimate | Change Estimate |
| | FY 1987 | FY 1988 | FY 1989 | FY 1989 |
| Direct Obligation or Direct Budget Plan | 533,129 | 628,116 | 789,653 | -49,588 |
| Direct Obligation | | | | 740,065 |

Section 1 - PURPOSE AND SCOPE

Provides for modification of items and upgrade of equipment procured by the Aircraft Procurement, Army appropriation, including modification kits.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

| | |
|----------|-------------------|
| | (\$ in Thousands) |
| FY 1988 | FY 1989 |
| \$17,484 | \$12,212 |

OV-1 Surveillance Airplane (MOHAWK) - (P-1 Line Items 12 and 13).

The \$17.5 million appropriated in FY 1988 provides advanced procurement (\$6.2 million) for the OV-1 block improvement program and \$11.3 million for an improvement to the AH/UPD-7 Airborne Radar Surveillance System. FY 1989 funding, \$12.2 million, is requested for production of block improvements on the aircraft.

1-15 February 1988

| | |
|---------|-------------------|
| | (\$ in Thousands) |
| FY 1988 | |
| - | |
| FY 1989 | \$31,900 |

RC-12 Upgrade - (P1 Line Item 14).

In FY 1989, \$31.9 million is requested to procure GUARDRAIL common sensor equipment for retrofit on the GUARDRAIL V aircraft procured in FY 1985.

| | |
|---------|-------------------|
| | (\$ in Thousands) |
| FY 1988 | |
| - | |
| FY 1989 | \$7,508 |

Airplane, Reconnaissance, RU-21H - (P-1 Line Item 15).

In FY 1989, \$7.5 million is requested for the RU-21H GUARDRAIL V aircraft to upgrade the avionics and electrical components. These aircraft will remain in the active inventory well into the 1990's.

| | |
|---------|-------------------|
| | (\$ in Thousands) |
| FY 1988 | |
| - | |
| FY 1989 | \$29,271 |

AH-1S Attack Helicopter (COBRA-TOW) - (P-1 Line Item 17).

A total of \$29.3 million is requested in FY 1989: \$17.2 million for cancellation costs of the unamortized tooling costs of COBRA-WITE; \$3.0 million for a TOW missile test set; and \$9.1 million for an improved air particle separator to improve safety, engine life and performance.

| | |
|-------------------|----------|
| (\$ In Thousands) | |
| FY 1988 | FY 1989 |
| \$68,451 | \$17,330 |

AH-64 APACHE Modifications - (P-1 Line Item 18).

In FY 1988, \$68.5 million was appropriated for the procurement of the Airborne Target Handover System, Integrated Flight Information Data System, wire strike protection, and incorporation of Air-to-Air Stinger. In FY 1989, \$17.3 million will continue the modifications on the Integrated Flight Information Data System and incorporation of the Air-to-Air Stinger system.

| | |
|-------------------|-----------|
| (\$ In Thousands) | |
| FY 1988 | FY 1989 |
| \$226,917 | \$256,287 |

CH-47 Cargo Helicopter Modifications (Multiyear Procurement) - (P-1 Line Items 20 and 21).

A total of \$226.9 million was appropriated in FY 1988 for continuation of the CH-47D modernization program and for fleet modifications. In FY 1989, \$256.3 million is requested for continuation of the fleet modernization to the Improved CH-47D configuration. Funding also permits the continuation of the T-55-L-11D engine conversion to the T-55-L-712 configuration. Advance procurement for FY 1988 and FY 1989 is \$57.2 million and \$84.4 million, respectively. This program is a multiyear procurement beginning in FY 1985 and continuing through FY 1989. Advance procurement in FY 1989 will support a new multiyear contract for the FY 1990-1992 program. The CH-47 Modernization program includes improvements to the current CH-47A, B, C fleet to modernize it to the greatly improved CH-47D configuration. These improvements increase the aircraft lift capability, endurance, and extend the useful life of the fleet beyond the year 2000. The features greatly enhance reliability, maintainability, productivity, survivability and safety of the Active Army's only medium-lift cargo helicopter.

1-17 February 1988

| | |
|-------------------|-----------------|
| (\$ in Thousands) | |
| FY 1988 | FY 1989 |
| <u>\$27,011</u> | <u>\$17,376</u> |

OH-58 Observation Helicopter (KIOWA) - (P-1 Line Item 23).

In FY 1988, \$27.0 million was appropriated for modifications on the OH-58 helicopter. The Army has no plans to procure any OH-58's in the future. Modification efforts include engine upgrades and the procurement of Air-to-Air Stinger missile launchers and associated electronics. In FY 1989, \$17.4 million is requested to continue the engine upgrade and the Air-to-Air Stinger modifications.

| | |
|-------------------|----------|
| (\$ in Thousands) | |
| FY 1988 | FY 1989 |
| <u>\$7,390</u> | <u>-</u> |

UH-1 Utility Helicopter (IROQUOIS) - (P-1 Line Item 24).

A total of \$7.4 million is available in FY 1988 to continue the hub spring modification to reduce the possibility of mast bumping and initiate incorporation of both SINGARS radio and a lightweight multi-band transceiver (AN/ARC-186).

| | |
|-------------------|-----------------|
| (\$ in Thousands) | |
| FY 1988 | FY 1989 |
| <u>\$38,998</u> | <u>\$28,412</u> |

UH-60A (BLACK HAWK) Mods - (P-1 Line Item 25).

The \$39.0 million in FY 1988 and the \$28.4 million requested in FY 1989, will continue to retrofit fielded UH-60 BLACK HAWKS with provisions to accommodate the External Stores Support System (ESSS). ESSS provides the Army with a self-deployment and extended range capability in support of the Rapid Deployment Force mission. Other improvements include the installation of the Hover Infrared Suppressor System, Wire Strike Protection System, SINGARS/Remote 186, SINGARS Radio, the APU particle separator, Flight Data Recorder, Map-of-the-Earth Communications HF/VHF and other modifications associated with the UH-60 aircraft.

1-18 February 1988

| | |
|-------------------|------------------|
| (\$ in Thousands) | |
| FY 1988 | FY 1989 |
| <u>\$160,100</u> | <u>\$161,000</u> |

Army Helicopter Improvement Program (AHIP) - (P-1 Line Items 26 and 27).

In FY 1988, \$160.1 million was appropriated to procure 36 AHIP configured aircraft and provide \$22.0 million in advance procurement to support FY 1989 production. In FY 1989, \$119.0 million is requested to procure 24 aircraft, \$22.0 million for advance procurement to support continued production in FY 1990, and \$20.0 million is requested to procure Air-to-Air Stinger.

| | |
|-------------------|----------------|
| (\$ in Thousands) | |
| FY 1988 | FY 1989 |
| <u>\$972</u> | <u>\$2,732</u> |

Airborne Avionics - (P-1 Line Item 28).

The \$1.0 million appropriated in FY 1988 and the \$2.7 million requested in FY 1989 will provide airborne avionics modifications and the initiation of upgrades for the Tactical Approach Radar.

| | |
|-------------------|-----------------|
| (\$ in Thousands) | |
| FY 1988 | FY 1989 |
| <u>\$96</u> | <u>\$13,050</u> |

Aircraft Survivability Equipment (ASE) Modifications Close Combat - (P-1 Line Item 29).

In 1988, \$.1 million funds the secure lighting modification for the M-130. The FY 1989 request will provide for modification of the AN/AQ-144, M-130 secure lighting, and kits to install the new antenna for the AN/APR-39A Radar Warning Receiver.

| (\$ In Thousands) | |
|-------------------|-----------------|
| FY 1988 | FY 1989 |
| <u>\$25,797</u> | <u>\$23,978</u> |

Aircraft 9WW - (P-1 Line Item 31).

A total of \$25.8 million was appropriated in FY 1988 and \$24.0 million is requested in FY 1989 for a classified program. Program description is provided separately.

| (\$ In Thousands) | |
|-------------------|------------------|
| FY 1988 | FY 1989 |
| <u>\$54,900</u> | <u>\$139,009</u> |

Special Operations Forces (SOF) Modifications - (P-1 Line Items 32 and 33).

A total of \$54.9 million in FY 1988 will be used to support Special Operations Aviation including \$13.4 million for long lead items for use on production of aircraft. In FY 1989, \$139.0 million continues this modification effort, with \$82.9 million required for modifications to MH-47E and MH-60K and \$56.1 million required for advanced procurement in support of the FY 1990 program. The Special Operations Forces Aircraft Modifications program provides for necessary modifications to upgrade MH-60K and MH-47E helicopters to configurations necessary to conduct precision navigation, extended range operations at tactical altitudes through unfamiliar mountainous terrain in support of special operations forces.

1-20 February 1988

| Department of the Army | | Appropriation | | Amended FY 1988/FY 1989 | |
|--|--|----------------------------|----------|-------------------------|---------|
| Annual Budget Estimates | | Aircraft Procurement, Army | | Biennial Budget | |
| JUSTIFICATION | | | | | |
| Program or Budget Project Account | | | | | |
| (Thousands of Dollars) | | | | | |
| | | Initial | | Amended | |
| | | Actual | Estimate | Estimate | Change |
| | | FY 1987 | FY 1988 | FY 1989 | FY 1989 |
| Budget Program - Activity 3, Spares and Repair Parts | | 545,598 | 517,122 | 553,069 | -900 |
| Direct Obligation or Direct Budget Plan | | | | | 552,169 |
| Direct Obligation | | | | | |

Section 1 - PURPOSE AND SCOPE

Provides for procurement of depot repairable spares and repair parts including provisioning (initial issue), replenishment, mobilization reserve, and avionics spares.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

| | |
|---------|-------------------|
| | (\$ in Thousands) |
| FY 1988 | FY 1989 |
| 517,122 | 552,169 |

Spares and Repair Parts - (P-1 Line Item 34).

Initial Spares: A total of \$154.3 million was appropriated in FY 1988 and \$164.6 million is requested in FY 1989 to procure spares and repair parts in support of initial fielding of new or modified systems. These funds also support the procurement of aircraft engines and engine modules over the life cycle of the aircraft. Spares are an integral part of the development of any aircraft system (new procurement or modification). Initial spares are ordered to support the major item delivery and fielding schedule to preclude grounding the system for lack of spare parts. Aircraft end items supported in FY 1988/1989 are:

| (Dollars in Millions) | |
|-----------------------|---------|
| Program | FY 88 |
| AH-64 | \$ 92.7 |
| UH-60A | 26.7 |
| RC-12D | 9.7 |
| | |
| | FY 89 |
| | \$ 83.9 |
| | 37.8 |
| | 8.8 |

1-21 February 1988

| Program | (Dollars in Millions) | |
|----------------------------------|-----------------------|----------------|
| | FY 88 | FY 89 |
| OV-1 | \$ - | \$.7 |
| AH-1S | 7.2 | .4 |
| CH-47 | 5.4 | 1.8 |
| AH-1P | - | 9.0 |
| Ground Support Equipment | .8 | .7 |
| Night Vision Goggles | 1.7 | .9 |
| Aircraft Survivability Equipment | 3.7 | 15.8 |
| Air-to-Air Stinger | 3.6 | 2.2 |
| Avionics | 2.7 | 2.6 |
| Total Initial | <u>\$154.3</u> | <u>\$164.6</u> |

Replenishment Spares: A total of \$362.8 million was appropriated in FY 1988 and \$387.6 million is requested in FY 1989. The peacetime replenishment spares support the Army's flying hour program, depot and pipeline requirements for the life of the system. War reserve spares provide initial combat surge support until resupply can be established.

1-22 February 1988

| Department of the Army | | Appropriation | | Amended FY 1988/FY 1989 | |
|---|--|----------------------------|----------|-------------------------|----------|
| Annual Budget Estimates | | Aircraft Procurement, Army | | Biennial Budget | |
| JUSTIFICATION | | | | | |
| Program or Budget Project Account | | (Thousands of Dollars) | | | |
| | | Initial | | Amended | |
| Budget Program - Activity 4, Support Equipment and Facilities | | Actual | Estimate | Estimate | Estimate |
| | | FY 1987 | FY 1988 | FY 1989 | FY 1989 |
| Direct Obligation or Direct Budget Plan | | 102,565 | 152,973 | 174,167 | -10,539 |
| Direct Obligation | | | | | 163,628 |

Section 1 - PURPOSE AND SCOPE

Provides for aircraft survivability equipment, avionics support equipment, common ground equipment including tool sets, shop sets and components thereof, ground handling/servicing equipment, special test and diagnostic equipment, fixed base airfield support equipment (air traffic control), and aviation life support equipment (ALSE); for tactical air traffic control systems; for industrial facilities including provisions for industrial facilities, depot maintenance plant equipment and value engineering; and for war consumables including lightweight rocket launchers.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

| | |
|----------|-------------------|
| | (\$ in Thousands) |
| FY 1988 | FY 1988 |
| \$77,692 | \$85,011 |

Aircraft Survivability Equipment (ASE) (MYP) - (P-1 Line Items 35 and 36).

The \$77.7 million appropriated in FY 1988 and the \$85.0 million requested in FY 1989 will procure AN/APR-39A(V)1 radar warning receivers for scout/attack helicopters. In FY 1988 funds will also initiate a two-year multiyear program to equip the Special Electronic Mission Aircraft (SEMA) fleet with the AN/ALQ - 136(V)2 radar jammer, procure 346 AN/ALQ - 144 (V)3 infrared jammers for attack helicopters and procure 8 AN/ALQ - 62(V)2 continuous wave radar jammers for SEMA aircraft. FY 1989 funds will continue the AN/ALQ - 136(V)2 multiyear and also procure 49 AN/AVR-2 laser warning receivers for scout/attack helicopters, procure 166 AN/ALQ - 144A for scout/attack helicopters and procure 618 M-130 general purpose dispensers.

1-23 February 1988

| | | |
|--|-------------------|-----------------|
| | (\$ In Thousands) | |
| | FY 1988 | FY 1989 |
| | <u>\$23,563</u> | <u>\$22,230</u> |

Avionics Support Equipment - (P-1 Line Item 37).

The \$23.6 million appropriated in FY 1988 and the \$22.2 million requested in FY 1989 provide aviation night vision goggles.

| | | |
|--|-------------------|-----------------|
| | (\$ In Thousands) | |
| | FY 1988 | FY 1989 |
| | <u>\$28,125</u> | <u>\$32,323</u> |

Common Ground Equipment - (P-1 Line Item 38).

In FY 1988, \$28.1 million was appropriated for Common Ground Equipment. In FY 1989, \$32.3 is requested for procurement of Sets, Kits, and Outfits; Aviation Ground Support Equipment; Aviation Life Support Equipment, Airfield Support Equipment; Position Locator Systems, Survival Radio Equipment and individual items costing less than \$2.0 million. Sets, Kits, and Outfits are required to fill shortages, replace obsolete equipment and to continue implementation of the three level maintenance concept. Aviation Ground Support Equipment provides for the acquisition of aircraft ground power units, vibrex analyzers, test equipment. Other Airfield Support Equipment is required to maintain the fixed base air traffic control capability at Army airfields/heliports by replacing aging or obsolete equipment. Aviation Life Support Equipment includes items oriented on improving crew member survivability in an NBC environment or aircraft crash. Survivor radios and position locator systems are required to alleviate the present shortage of equipment used for rescue of downed aircraft and aircrew members. Items less than \$2.0 million contains a grouping of test equipment for the maintenance of avionics.

| | | |
|--|-------------------|----------|
| | (\$ In Thousands) | |
| | FY 1988 | FY 1989 |
| | <u>\$2,885</u> | <u>-</u> |

Air Traffic Control - (P-1 Line Item 39).

A total of \$2.9 million was appropriated in FY 1988 to continue the procurement of tactical Air Traffic Control (ATC) systems to fill critical shortages of equipment in both Active and Army National Guard units.

1-24 February 1988

| | |
|----------|-------------------|
| | (\$ in Thousands) |
| FY 1988 | FY 1989 |
| \$17,610 | \$20,997 |

Industrial Facilities - (P-1 Line Item 40).

The \$17.6 million appropriated in FY 1988 is for support of the Army Aviation Program Industrial Facilities. The \$21.0 million requested in FY 1989 includes \$15.7 million for rehabilitation and provision of industrial equipment, \$4.3 million for depot maintenance plant equipment and \$1.0 million for the value engineering program.

| | |
|---------|-------------------|
| | (\$ in Thousands) |
| FY 1988 | FY 1989 |
| \$3,068 | \$3,067 |

War Consumables - (P-1 Line Item 41).

The \$3.1 million appropriated in FY 1988 and the \$3.1 million requested in FY 1989 are for M260 and M261 Lightweight Rocket Launchers to be used on the AH-1 COBRA/TOW and AH-64 attack helicopters. These launchers are required in order to fire the new family of Hydra 70 rockets with remote set fuzing options.

AIRCRAFT PROCUREMENT, ARMY

Section 3

Comparison of Program Requirements and Financing

Comparison of FY 1988 program requirements as reflected in FY 1983/1989 budget with FY 1988 program requirements as shown in FY 1989 amended budget.

Comparison in FY 1988 financing as reflected in FY 1988/1989 budget with FY 1988 financing as shown in FY 1989 amended budget.

Comparison of FY 1987 program requirements as reflected in FY 1988/1989 budget with FY 1987 program requirements as shown in FY 1989 amended budget.

Comparison of FY 1987 financing as reflected in FY 1988/1989 budget with FY 1987 financing as shown in FY 1989 amended budget.

1-26 February 1988

COMPARISON OF FY 1988 PROGRAM REQUIREMENTS
AS REFLECTED IN FY 1988/1989 BUDGET WITH
FY 1988 PROGRAM REQUIREMENTS AS SHOWN IN FY 1989 AMENDED BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

| Appropriation Aircraft Procurement, Army | FY 1988 Requirements Per FY 1988/1989 Budget | FY 1988 Requirements Per FY 1989 Amended Budget | Increase (+) or Decrease (-) |
|--|--|---|------------------------------------|
| Activity 1 - Aircraft | 1,197,556 | 1,420,195 | 222,639 |
| Activity 2 - Modification of Aircraft | 608,308 | 628,116 | 19,808 |
| Activity 3 - Spares and Repair Parts | 512,122 | 517,122 | 5,000 |
| Activity 4 - Support Equipment and Facilities | 155,973 | 152,973 | 3,000 |
| TOTAL | 2,473,959 | 2,718,406 | 244,447 |

EXPLANATION BY ACTIVITY

Activity 1 - Aircraft - Net increase results from Congressional actions that provide for the C-20 aircraft (+\$20,000), AH-64 (+\$192,415), and UH-60 (+\$39,980), and reduce RC-120 (-\$6,000) and EH-60 (-\$18,756), and a below threshold reprogramming from UH-60 (-\$5,000) to Spares and Repair Parts.

Activity 2 - Modification of Aircraft - Net increase is due to Congressional actions to AH-64 Mods (-\$10,300), CH-47 (-\$5,000), OH-58 (-\$10,000), AHIP (+\$112,000) and SOF Aircraft (-\$66,892), and internal Army adjustments to RV-21H (-\$3,174), UH-1 (-\$2,026) and UH-60 (+\$5,200).

Activity 3 - Spares and Repair Parts - Increase is due to below threshold reprogramming from UH-60 to replenishment spares (+\$5,000).

Activity 4 - Support Equipment and Facilities - Decrease is due to Congressional reduction in Aircraft Survivability Equipment (-\$3,000).

1-27 February 1988

COMPARISON OF FY 1988 FINANCING AS REFLECTED
IN THE FY 1988/1989 BUDGET WITH FY 1988 FINANCING
AS SHOWN IN FY 1989 AMENDED BUDGET

| Appropriation | (In Thousands of Dollars) | | |
|--|---------------------------------------|--|------------------------------------|
| | Financing Per FY 1988/89 Budget | Financing Per FY 1989 Amended Budget | Increase (+) or Decrease (-) |
| Aircraft Procurement, Army | | | |
| Program Requirements (Total) | 2,491,859 | 2,852,206 | +360,347 |
| Program Requirements (Service Account) | (2,473,959) | (2,718,406) | (+244,447) |
| Program Requirements (Reimbursable) | (17,900) | (133,800) | (+115,900) |
| Less: | | | |
| Anticipated reimbursements | -17,900 | -133,800 | -115,900 |
| Unobligated balance available from prior year to finance new budget plans | | - 87,100 | - 87,100 |
| Add: | | | |
| Unobligated balance transferred to other accounts | | 19,610 | + 19,610 |
| Reprogramming from prior year budget plans | | 6,290 | + 6,290 |

BUDGET AUTHORITY

Appropriation

2,473,959 2,657,206 +183,247

EXPLANATION:

The reimbursement program (offsetting collection) increased in FY 1988 by \$115,900 because of new orders anticipated from Foreign Military Sales. The unobligated balances available at the start of the year were adjusted as follows: The -\$87,100 resulted from FY 1988 Congressional rescissions in FY 1986 of \$32,000, and FY 1987 of \$55,100. The \$6,290 represents reprogrammings awaiting Congressional approval. The \$19,610 represents Congressional approved reprogrammings.

1-28 February 1988

COMPARISON OF FY 1987 PROGRAM REQUIREMENTS
AS REFLECTED IN FY 1988/1989 BUDGET WITH
FY 1987 PROGRAM REQUIREMENTS AS SHOWN IN FY 1989 AMENDED BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

| Appropriation Aircraft Procurement, Army | Total Program Requirements Per FY 1988/89 Budget | Program Requirements | | Increase (+) or Decrease (-) |
|---|--|-------------------------------|-------------------------------|------------------------------------|
| | | Per FY 1989 Amended Budget | Per FY 1989 Amended Budget | |
| Activity 1 - Aircraft: | 1,584,177 | 1,550,648 | | -33,529 |
| Activity 2 - Modification of Aircraft | 503,425 | 533,129 | | +29,704 |
| Activity 3 - Spares and Repair Parts | 558,599 | 545,598 | | -13,001 |
| Activity 4 - Support Equipment and Facilities | 108,649 | 102,565 | | -6,084 |
| TOTAL | 2,754,850 | 2,731,940 | | -22,910 |

Explanation by Activity

Activity 1 - Aircraft - Net decrease is due to Congressional actions and internal Army adjustments that decreased C-20 (-\$3,520), EH-60 (-\$16,053), and AH-64 (-\$19,139). These reductions were offset by a Congressional increase to UH-60 (+\$5,183).

Activity 2 - Modification of Aircraft - Net increase is due to Congressional actions and internal Army adjustments that decreased OV-1 (-\$4,450), RV-1 (-\$1,982), AH-1S (-\$302), CH-47 (-\$4,870), CH-54 (-\$295), UH-1 (-\$455), and ASE Mods (-\$3,419). Increases occur in AH-64 Mods (+\$9,051), GPWS (+\$5,565), UH-60 (+\$9,899), AHIP (+\$320), Airborne Avionics (+\$1,998), Mods under \$24 (+\$2,216), 9MM (+\$7,730), and SOP Mods (+\$8,698).

Activity 3 - Spares and Repair Parts - Net decrease is due to reduction in replenishment spares (-\$13,001).

Activity 4 - Support Equipment and Facilities - Net decrease is due to decreases in Aircraft Survivability Equipment (-\$721), Avionics Support Equipment (-\$7,895), Industrial Facilities (-\$320), and War Consumables (-\$116). Increase occurred in Common Ground Equipment (+\$2,968).

1-29 February 1988

COMPARISON OF FY 1987 FINANCING AS REFLECTED
IN THE FY 1988/1989 BUDGET WITH FY 1987 FINANCING
AS SHOWN IN FY 1989 AMENDED BUDGET

| | (In Thousands of Dollars) | | |
|--|---|--|------------------------------------|
| | Financing Per FY 1988/1989 Budget | Financing Per FY 1989 Amended Budget | Increase (+) or Decrease (-) |
| Program Requirements (Total) | 2,798,650 | 2,797,064 | - 1,586 |
| Program Requirements (Service Account) | (2,754,850) | (2,731,940) | (-22,910) |
| Program Requirements (Reimbursable) | (43,800) | (65,124) | (+21,324) |
| Less: | | | |
| Anticipated reimbursements | -43,800 | -65,124 | -21,324 |
| Unobligated balance available from prior year to finance new budget plans | -108,200 | -108,200 | - |
| Reprogramming from/to prior year budget plans | 27,740 | -59,844 | -87,584 |
| Unobligated balance rescinded: Appropriation | 94,400 | - | -94,400 |
| Add: | | | |
| Unobligated balance transferred to other accounts | -13,940 | 28,319 | 42,759 |
| Unobligated balance available to finance subsequent year budget plans | | 87,100 | 87,100 |
| Unobligated balance lapsing | | 6,535 | 6,535 |
| BUDGET AUTHORITY | | | |
| Appropriation | 2,754,850 | 2,686,350 | -68,500 |

EXPLANATION:

The reimbursible program (offsetting collections) increased because of additional Foreign Military Sales orders that were not previously planned.

The unobligated balance available at the start of the year to finance new budget plans differs because of program changes and changes in the use of treasury code structure. This structure change now spreads the \$94,400 associated with an FY 1987 Congressional rescission for FY 1985 and FY 1986 to the other subentries. Other differences resulted from an FY 1983 reprogramming for Foreign Currency Fluctuations and new FY 1985 reprogramming into the Military Pay and Operating Appropriations.

The unobligated balance available at the end of the year to finance subsequent year budgets resulted from an FY 1988 Congressional rescission affecting FY 1987 and FY 1986. At the end of FY 1987, \$6,535 of FY 1985 appropriated funds lapsed.

1-30 February 1988

AFRCAFT PROCUREMENT, ARMY

Section 4

Status of Aircraft Modification Programs

1-31 February 1988

Status of Aircraft Modification Program

FY 1986 Modification Programs

Programs as of 31 December 1987 (\$ Million)

| Program | Appropriated | Reprogramming | Total Program Value | Total Obligations | Total Disbursements |
|---|--------------|---------------|---------------------------|----------------------|------------------------|
| Airplane, Surveillance, OV-1 | 19.6 | + .6 | 20.2 | 20.1 | 5.0 |
| Airplane, Reconnaissance, RC-12D | - | + .1 | .1 | .1 | - |
| Airplane, Reconnaissance, RV-1 | - | + .2 | .2 | .2 | - |
| Helicopter, Attack, AH-1S | 112.9 | -19.0 | 93.9 | 81.0 | 10.4 |
| Helicopter, Cargo, CH-47 | 296.0 | -14.9 | 281.1 | 277.4 | 260.8 |
| Helicopter, Cargo, CH-54 | .5 | - | .5 | - | - |
| Helicopter, Observation, OH-58 | - | +32.0 | 32.0 | - | - |
| Helicopter, Utility, UH-1 | 11.1 | - 5.6 | 5.5 | 5.2 | 3.1 |
| UH-60A Mods | 12.9 | + 7.9 | 20.8 | 19.8 | 15.4 |
| Army Helicopter Improvement Program (AHIP) | 167.7 | +10.5 | 178.2 | 177.5 | 99.4 |
| Airborne Avionics | 1.0 | - .7 | .3 | .3 | .3 |
| Modifications under \$900,000 | .1 | + .1 | .2 | .2 | .1 |
| Aircraft 9MW | 15.5 | - | 15.5 | 15.0 | 4.7 |

1-32 February 1988

Status of Aircraft Modification Program

FY 1987 Modification Programs

Programs as of 31 December 1987 (\$ Million)

| Program | Appropriated | Reprogramming | Total Program Value | Total | |
|---|--------------|---------------|---------------------------|-------------|---------------|
| | | | | Obligations | Disbursements |
| Airplane, Surveillance, OV-1 | 9.8 | -4.5 | 5.3 | 2.6 | - |
| Airplane, Reconnaissance, RV-1 | 2.6 | -1.9 | .7 | .2 | - |
| Helicopter, Attack, AH-1S | 25.4 | - .3 | 25.1 | 25.0 | 7.0 |
| AH-64 Mods | 32.6 | +9.1 | 41.7 | 15.3 | .4 |
| Helicopter, Cargo, CH-47 | 256.0 | -4.9 | 251.1 | 225.1 | 2.0 |
| Helicopter, Cargo, CH-54 | 1.3 | - .3 | 1.0 | - | - |
| Ground Proximity Warning System | 6.9 | -1.3 | 5.6 | - | - |
| Helicopter, Utility, UH-1 | 6.2 | - .5 | 5.7 | 3.0 | - |
| UH-60A Mods | 7.5 | +9.9 | 17.4 | 10.7 | 3.6 |
| Army Helicopter Improvement Program (AHIP) | 146.7 | + .4 | 147.1 | 108.9 | 7.6 |
| Airborne Avionics | .1 | +2.0 | 2.1 | 2.0 | .1 |
| Aircraft 9MW | 11.7 | +7.8 | 19.5 | 16.5 | 9.2 |
| Modifications under \$2.0M | .1 | +2.2 | 2.3 | 1.7 | .3 |
| ASE Mods Close Combat | 3.4 | -3.4 | 0 | - | - |
| SOF Aircraft Mods | - | +8.7 | 8.7 | - | - |

1-33 February 1988

Status of Aircraft Modification Program

FY 1938 Modification Programs

Programs as of 31 December 1937 (\$ million)

| <u>Program</u> | <u>Appropriated</u> | <u>Reprogramming</u> | <u>Total Program Value</u> | <u>Total Obligations</u> | <u>Total Disbursements</u> |
|---|---------------------|----------------------|------------------------------------|------------------------------|--------------------------------|
| Airplane, Surveillance, OV-1 | 17.5 | - | 17.5 | - | - |
| Airplane, Reconnaissance, RV-21H | 3.2 | -3.2 | 0 | - | - |
| AH-64 Mods | 68.4 | - | 68.4 | - | - |
| Helicopter, Cargo, CH-47 | 226.9 | - | 226.9 | 198.7 | - |
| Helicopter, Observation, OH-58 | 27.0 | - | 27.0 | 11.2 | - |
| Helicopter, Utility, UH-1 | 9.4 | -2.0 | 7.4 | 3.0 | - |
| UH-60A Mods | 33.8 | +5.2 | 39.0 | - | - |
| Army Helicopter Improvement Program (AHIP) | 160.1 | - | 160.1 | - | - |
| Airborne Avionics | 1.0 | - | 1.0 | - | - |
| ASE Mods Close Combat | .1 | - | .1 | - | - |
| Aircraft 9MW | 25.8 | - | 25.8 | - | - |
| SOF Aircraft | 54.9 | - | 54.9 | - | - |

1-34 February 1938

AIRCRAFT PROCUREMENT, ARMY

Section 5

Flight Simulator Procurement Program

Exhibit PB-32E

Exhibit P-43

1-35 February 1983

FLIGHT SIMULATOR DATA SHEET
FY 1989 Amended Budget Estimate

Simulator Model: UH-60 Flight Simulator (2B38)

Aircraft System Supported: UH-60A BLACK HAWK

Description of Simulator: The production UH-60 BLACK HAWK Flight Simulator consists of a single cockpit mounted on a six degree-of-freedom motion system which is computer controlled. The design baseline for the simulator cockpit configuration and system performance is UH-60A aircraft number 82-23748. The cockpit is an exact replica of the design base aircraft from the trainee station forward. The Army Tactical Digital Image Generator (ATACDIG) produces the visual scene presented to the pilot and copilot.

The simulator is designed to provide institutional and unit continuation training in normal operating and emergency procedures and tactical operations. To simulate a tactical combat environment the ATACDIG visual system provides interactive ground and air moving threat vehicles. The simulator can train: low level, contour, NOE, confined areas, pinnacle operations, sling loads, and formation flight.

Development Status: Program provides for 15 production units plus the retrofit of one prototype unit with contract award for units 13-15 in December 1987.

| <u>Funding Data:</u> (In Millions) | <u>FY 1986</u> | <u>FY 1987</u> | <u>FY 1988</u> | <u>FY 1989</u> |
|---------------------------------------|----------------|----------------|----------------|----------------|
|---------------------------------------|----------------|----------------|----------------|----------------|

| | | | | |
|----------|-----|--|-----|---|
| Quantity | (3) | | (3) | - |
|----------|-----|--|-----|---|

| | | | | |
|------------------------|--------|--|--------|---|
| Procurement (Aircraft) | \$33.9 | | \$39.5 | - |
|------------------------|--------|--|--------|---|

Basis for FY 1988 Request: Production of UH-60 simulators falls under a firm, fixed price contract, a five year conventional multiyear contract approved for prior year procurements.

Contract Data: The Basis for Issue is 15 production units plus the retrofit of 1 prototype unit (2 cockpits), with plans to upgrade previously procured simulators to support changes in the aircraft under a pre-planned product improvement program in FY 1988. FY 1985 units awarded in November 1984 and delivered in January 1988; FY 1986 units awarded in November 1985 and delivered in January 1989; and FY 1988 units awarded in December 1987 and delivered in January 1990.

EXHIBIT PB-32E

FLIGHT SIMULATOR DATA SHEET
FY 1989 Amended Budget Estimate

Simulator Model: AH-64 Combat Mission Simulator (2B40)

Aircraft System Supported: AH-64 Attack Helicopter (APACHE)

Description of Simulator: The prototype AH-64 Combat Mission Simulator will be designed to provide a training capability for flight and weapon delivery, normal and emergency procedures, and sensor system operating tasks required in the operational design basis helicopter. The simulator will consist of pilot and copilot/gunner trainee modules, instructor modules, motion subsystems, visual subsystems, and a computer complex. The pilot and copilot/gunner trainee modules will be replicas of the actual aircraft cockpits and each will be mounted on a six degree-of-freedom of motion base. The visual subsystem will provide a current state-of-the-art out-the-window scene and sensor imagery to each of the appropriate crew-member video displays. Simulated imagery includes Forward Looking Infrared (FLIR), Day Television (DTV), and Direct View Optics (DVO). Pilot displays consist of the Integrated Helmet and Display Sight System Helmet Display Unit (IHADSS HDU) and a panel mounted Video Display Unit (VDU). Gunner displays include the IHADSS HDU, a target acquisition and designation sight Heads Down Display (HDD), and a TADS Heads Out Display (HOD). The simulator will be operated through the computer complex which will fulfill subsystem interface requirements. The training functions will be controlled from the instructor's station located behind each trainee module. The pilot and copilot/gunner will have the capability to train individually or may train as a team performing an integrated combat mission.

Development Status: Six production devices in addition to the prototype are planned in the Basis of Issue Plan. The production devices will be similar to the prototype with plans in FY 1988 to upgrade all devices (visual systems and aircraft configuration) under a pre-planned product improvement program.

| <u>Funding Data:</u> | <u>FY 1986</u> | <u>FY 1987</u> | <u>FY 1988</u> | <u>FY 1989</u> |
|------------------------|----------------|----------------|----------------|----------------|
| <u>(In Millions)</u> | | | | |
| Quantity | (4) | - | (3) | |
| Procurement (Aircraft) | 62.8 | - | \$12.2 | - |
| NOTE | - | - | - | - |
| Total | 62.8 | - | \$12.2 | - |

Basis for FY 1988 Request: In FY 1988, upgrade of devices (visual system and aircraft configuration) will be accomplished, along with the acquisition of three AH-64 Cockpit, Weapons Emergency Procedures Trainers (CWEPT).

Contract Data: In FY 1988, CWEPT award is scheduled for March 1988 with delivery in April 1989.

FY 1939 AMENDED BUDGET ESTIMATE

FLIGHT SIMULATOR AND OTHER AIRCRAFT TRAINING EQUIPMENT

EXHIBIT P-43

(Dollars in Millions)

APPROPRIATION: Aircraft Procurement, Army

| <u>Weapon System</u> | <u>Equipment Nonexpenditure</u> | <u>P-1 Line Item</u> | <u>FY 1986 Qty/Amount</u> | <u>FY 1987 Qty/Amount</u> | <u>FY 1988 Qty/Amount</u> | <u>FY 1989 Qty/Amount</u> |
|----------------------------|---------------------------------|----------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| UH-60 (2B38)(SSNA09400) | FS | 10 | 3 33.9 | - - | 3 39.5 | - - |
| AH-64 (2B40)(SSNA09000) | FWS | 8 | 4 62.8 | - - | 3 12.2 | - - |

1-38 February 1988